

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**Solve the problem.**

- 1) Assume that a watermelon dropped from a tall building falls $y = 16t^2$ ft in t sec. Find the watermelon's average speed during the first 4 sec of fall. 1) _____
- A) 64 ft/sec B) 128 ft/sec C) 32 ft/sec D) 65 ft/sec

Determine the limit by substitution.

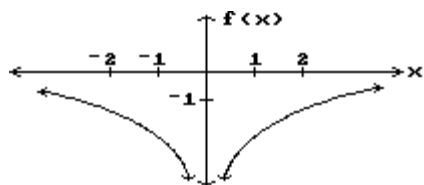
- 2) $\lim_{x \rightarrow 0} (x^2 - 5)$ 2) _____
- A) 0 B) 5 C) -5 D) Does not exist

Determine the limit algebraically, if it exists.

- 3) $\lim_{x \rightarrow -8} \frac{x^2 - 64}{x + 8}$ 3) _____
- A) Does not exist B) -16 C) -8 D) 1

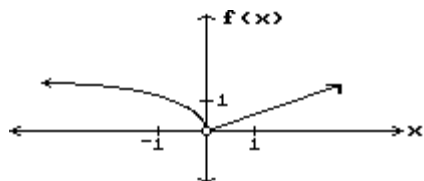
Determine the limit graphically, if it exists.

- 4) $\lim_{x \rightarrow 0} f(x)$ 4) _____



- A) 0 B) -2 C) 2 D) Does not exist

- 5) $\lim_{x \rightarrow 0} f(x)$ 5) _____



- A) 1 B) 0 C) Does not exist D) -1

Answer Key

Testname: MCM SEPT 13 LIMITS

- 1) A
- 2) C
- 3) B
- 4) D
- 5) B